

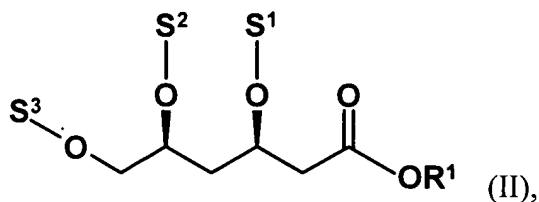
Amendments to the claims:

This listing of the claims will replace all prior versions, and listings of claims in the application.

Listing of Claims:

1. ~~(Currently Amended) Process-A process~~ A process for the preparation of a statin, comprising the following steps:

a) ~~Preparation of~~ preparing a compound of the formula II



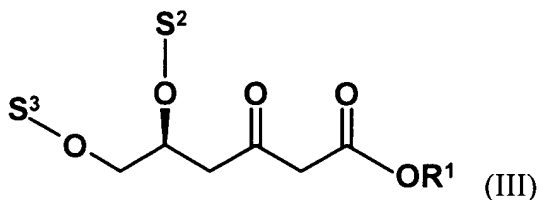
in which

S¹ denotes a hydrogen atom or a hydroxyl protective group,

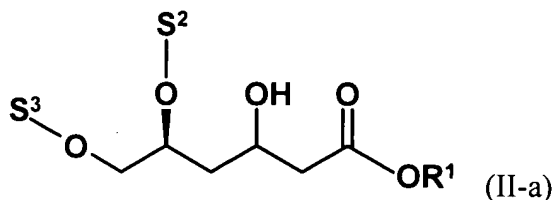
S² and S³, independently of one another, denote hydroxyl protective groups, and

R¹ represents a hydrogen atom or a carboxyl protective group,

by stereoselective hydrogenation of a compound of the formula III

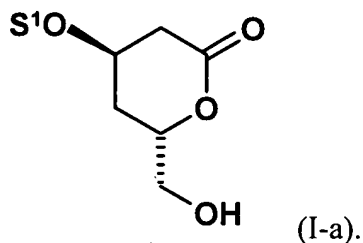


to give a compound of the formula II-a



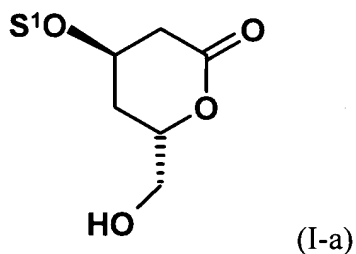
and optionally ~~introduction of~~ introducing a hydroxyl protective group; and

- b) ~~lactonization of~~ lactonizing the compound of the formula II to give a compound of the formula I-a

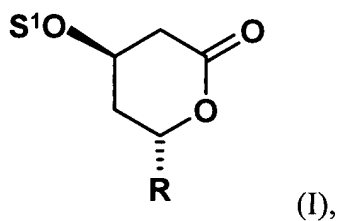


2. (Currently Amended) Process The process according to Claim 1, comprising the further step of

- c) ~~conversion of~~ converting the compound of the formula I-a



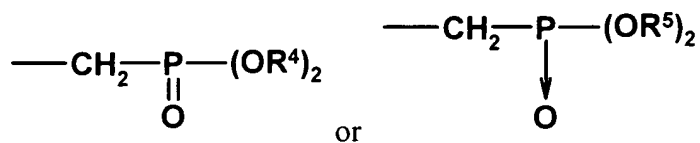
into a compound of the formula I



wherein the radical

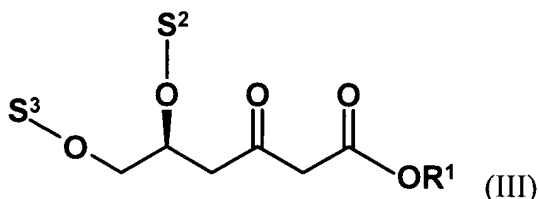
S¹ is as defined in Claim 1,

R denotes -CH₂R², -CHO, -CH=P(R³)₃, -CH₂-P⁺(R³)₃M⁻,

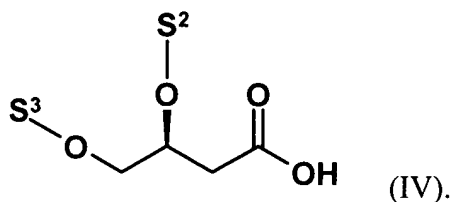


- R^2 denotes a halogen atom, $-C\equiv N$, $-CH_2NH_2$, $-SO_2-R^6$ or a leaving group,
 R^3 , R^4 and R^5 complete a Wittig radical or a Horner-Wittig radical,
 R^6 denotes a hydrogen atom or a C_{1-3} -alkyl or a C_{5-10} -aryl radical, which are optionally substituted by one or more radicals which, independently of one another, are selected from halogen atoms, heterocycles which contain 0 to 10 carbon atoms and 1 to 10 heteroatoms selected from sulphur, nitrogen and oxygen atoms, and functional groups, and
 M^+ represents an opposite ion.

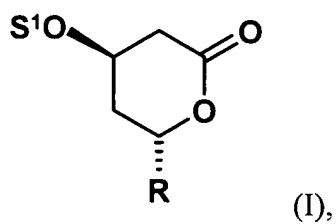
3. ~~(Currently Amended) Process~~ The process according to Claim 1 ~~or 2~~, comprising the step of:
~~preparation of~~ preparing a compound of the formula III



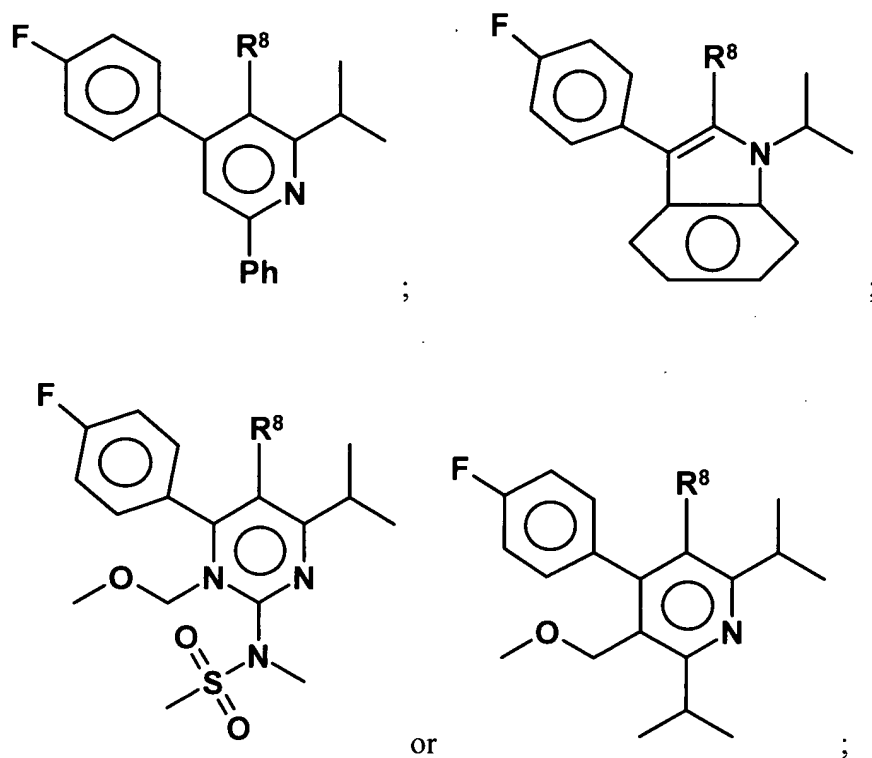
by chain extension of a compound of the formula IV



4. ~~(Currently Amended) Process~~ The process according to any of Claims 1 to 3, wherein the compound of the formula I ~~being~~ is converted into the statin by one of the following processes steps and then optionally by ~~opening of~~ opening the lactone ring and optionally by ~~removal of~~ removing the protective groups:
- a) ~~reaction of~~ reacting a compound of the formula (I)

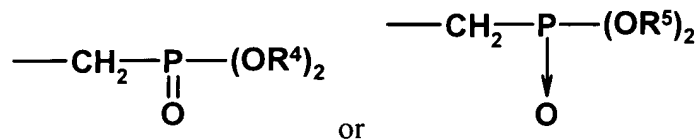


in which the radical R represents a CHO group and the radical S¹ is as defined in Claim 1,
with a compound of the formula



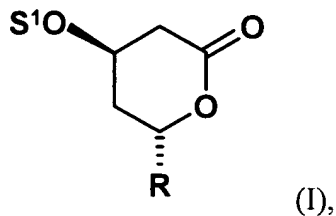
in which

R⁸ denotes -CH=P(R³)₃, -CH₂-P⁺(R³)₃M⁻,



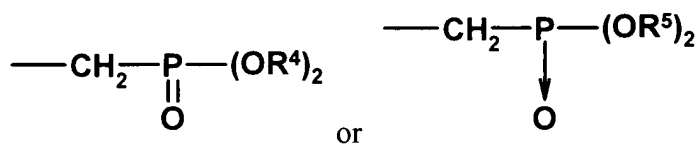
where R³, R⁴, R⁵ and M are as defined in Claim 1,

b) ~~reaction of~~ reacting a compound of the formula I

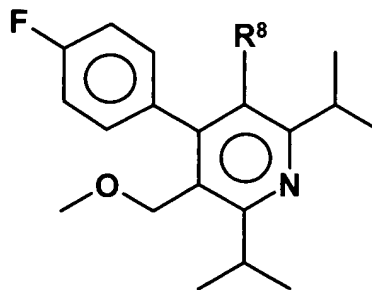
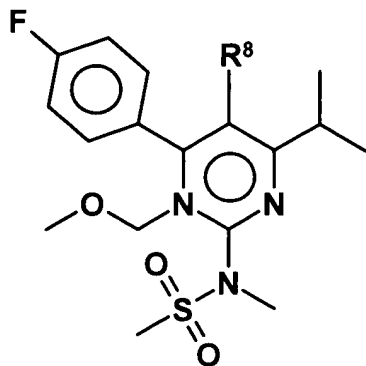
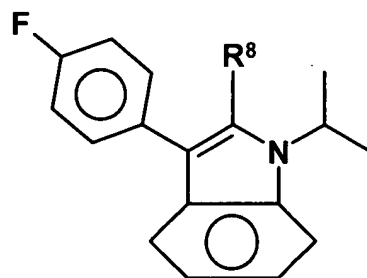
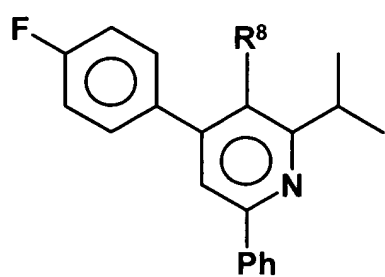


in which

the radical R denotes $-\text{CH}=\text{P}(\text{R}^3)_3$, $-\text{CH}_2-\text{P}^+(\text{R}^3)_3\text{M}^-$,



with a compound of the formula

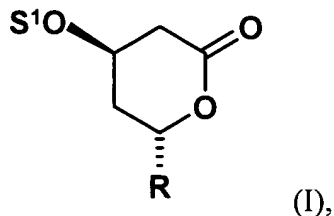


in which

R^8 denotes $-\text{CHO}$,

where R^3 , R^4 , R^5 and M are as defined in Claim 1,

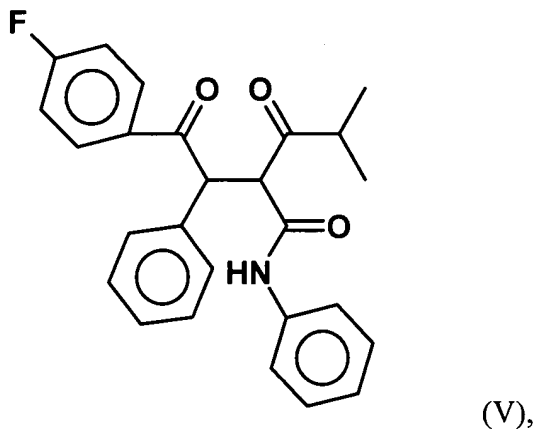
c) ~~reaction of reacting~~ a compound of the formula I



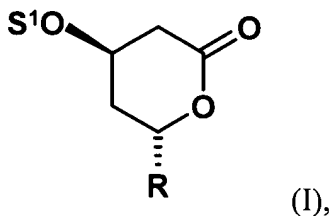
in which

the radical R is a group $-\text{CH}_2-\text{C}\equiv\text{N}$,

~~Hydrogenation of hydrogenating~~ the compound of the formula I in which the radical R is a group $-\text{CH}_2-\text{C}\equiv\text{N}$, to give a compound of the formula I in which the radical R is a group $-\text{CH}_2-\text{CH}_2\text{NH}_2$,
~~and reaction of reacting~~ the compound of the formula I in which the radical R is a group $-\text{CH}_2-\text{CH}_2\text{NH}_2$ with a compound of the formula V



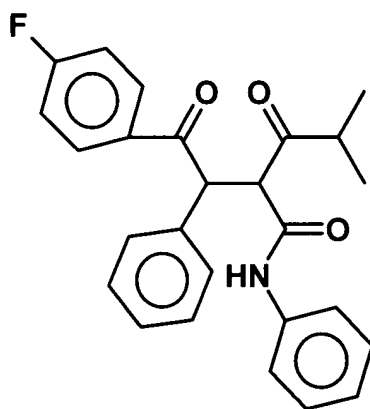
d) ~~hydrogenation of hydrogenating~~ a compound of the formula I



in which

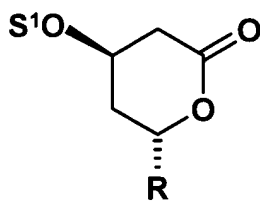
the radical R is a group $-\text{CH}_2-\text{C}\equiv\text{N}$, to give a compound of the formula I in which the radical R is a group $-\text{CH}_2-\text{CH}_2\text{NH}_2$,

and ~~reaction of~~reacting the compound of the formula I in which the radical R is a group $-\text{CH}_2-\text{CH}_2\text{NH}_2$ with a compound of the formula V



(V), and

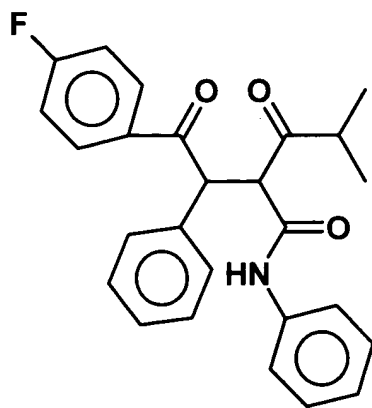
e) ~~reaction of~~reacting a compound of the formula (I)



(I),

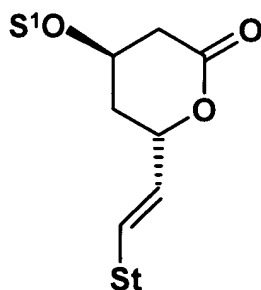
in which

the radical R is a group $-\text{CH}_2-\text{CH}_2\text{NH}_2$, with a compound of the formula V

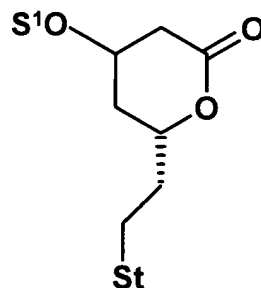


(V).

5. ~~(Currently Amended) Process~~ The process according any of Claims 1 to 4, characterized in that a compound of the formula



in which S^1 is as defined in Claim 1 and St represents the radical of the statin, is converted into a compound of the formula



by catalytic hydrogenation, and optionally the protective group S^1 is removed and optionally the lactone ring is opened.

6. (Currently Amended) Process The process according to any of Claims 1 to 5, wherein the hydroxyl protective group S^1 ~~being~~ is selected from a trimethylsilyl, triisopropylsilyl, trimethylsilylethyl, tert-butyldimethylsilyl, tert-butylmethylsilyl, di-tert-butylmethylsilyl, tert-butylphenylsilyl, triphenylsilyl, diphenylmethylsilyl, tris(trimethylsilyl) and para-tosyl protective group.

7. (Currently Amended) Process The process according to any of Claims 1 to 6, wherein the protective groups S^2 and S^3 ~~being~~ are bridged.

8. (Currently Amended) Process The process according to Claim 7, wherein the protective groups S^2 and S^3 together representing an isopropylidene protective group.

9. (Currently Amended) Process The process according to any of Claims 2 to 7, wherein the radical R ~~representing~~ represents a radical CH_2R^2 and R^2 ~~representing~~ represents a leaving group, the leaving group being selected from a halogen atom, and a radical $-OSO_2-C_1-C_6$ -alkyl, ~~or~~ and $-OSO_2-C_5-C_{10}$ -aryl.

10. (Currently Amended) Process The process according to any of Claims 1 to 9, wherein the radical R^1 ~~denoting~~ denotes a hydrogen atom, ~~or~~ a C_{1-3} -alkyl, or a C_{4-10} -aryl radical, each of which ~~are~~ may be optionally substituted by one or more radicals, which, independently of one another, are selected from halogen atoms, heterocycles which have 0 to 10 carbon atoms and 1 to 10 heteroatoms selected from sulphur, nitrogen and oxygen atoms, and functional groups.

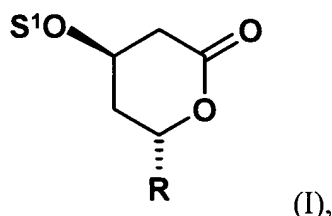
11. (Currently Amended) Process The process according to any of Claims 1 to 10, wherein R^3 ~~denoting~~ denotes a C_5 - to C_{10} -aryl radical which is optionally substituted by one or two C_1 - C_4 -alkyl radicals and/or halogen atoms, a C_1 - C_4 -alkyl radical or a C_5 - C_{10} -cycloalkyl radical,

R^4 ~~denoting~~ denotes a C_1 - C_4 -alkyl radical, and

R^5 ~~denoting~~ denotes a C_1 - C_6 -alkyl or C_5 - C_{10} -aryl radical.

12. (Currently Amended) Process ~~The process~~ according to ~~any of Claims 1 to 11~~, wherein the statin ~~being is~~ fluvastatin, rosuvastatin, cerivastatin, glenvastatin or atorvastatin.

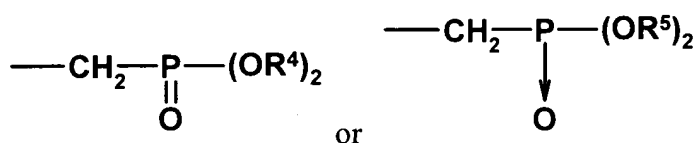
13. (Currently Amended) Compound ~~A compound~~ of the formula I



in which

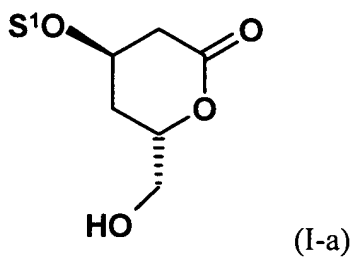
S^1 and R are as defined in Claim 2, with the proviso that the radical S^1 does not represent a tert-butyldimethylsilyl group if the radical R represents a CHO , $-CH_2-OTos$, $-CH_2Cl$ or $-CH_2I$ group.

14. (Currently Amended) Compound ~~A compound~~ according to Claim 13, in which the radical S^1 represents a tert-butyldimethylsilyl group and the radical R represents a $-CH_2R^2$, $-CH=P(R^3)_3$, $-CH_2-P^+(R^3)_3M^-$,

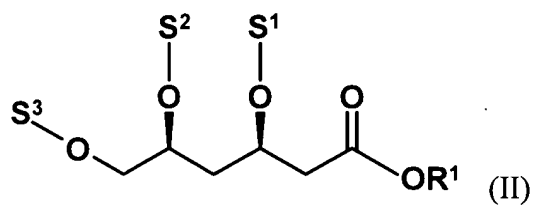


group, wherein R^2 represents a bromine atom, a $-C\equiv N$, a $-CH_2NH_2$ group or a radical $-SO_2-R^6$, and R^3 , R^4 , R^5 , R^6 and M are as defined in Claim 2.

15. (Currently Amended) Process ~~The process~~ for the preparation of a compound of a formula (I-a)



in which the radical S^1 is as defined in Claim 1, characterized in that a compound of the formula II



in which

S^1 , S^2 , S^3 and R^1 are as defined in Claim 1, is converted into the compound of the formula I-a by lactonization.